

Abstract

A differential displacement electromagnetic device providing forward thrust over water of a watercraft. This electromagnetic device includes an elongated rigid rail member anchored against the watercraft bilge, a first magnet module, slidingly carried by one end portion of the rail member, and a second magnet module, slidingly carried by another end portion of the rail member. The second module has the same mass as the first module but has a pivot mount at a central portion thereof. A pair of elongated rigid arms are pivotally mounted at their inner ends to the second module member pivot mount, while a pair of electromagnets are fixedly mounted to corresponding outer ends of the rigid arms. An electric battery generates an electromagnetic field of force about the magnets and electromagnets, such that upon energizing the battery, magnetic repulsive sliding displacement of both modules occurs, wherein the speed achieved by the second module is greater than that of the first block so that forward thrust of the watercraft over water may occur.

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